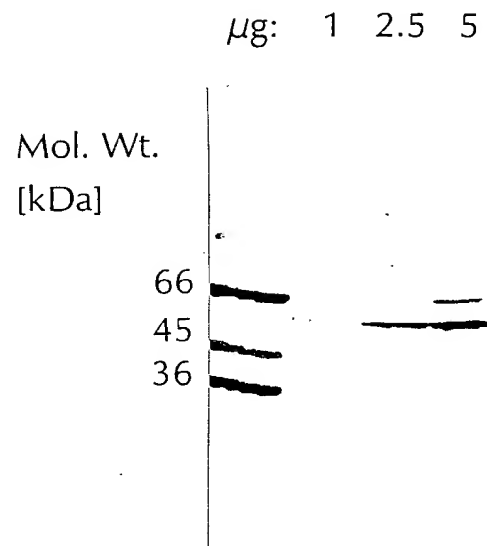


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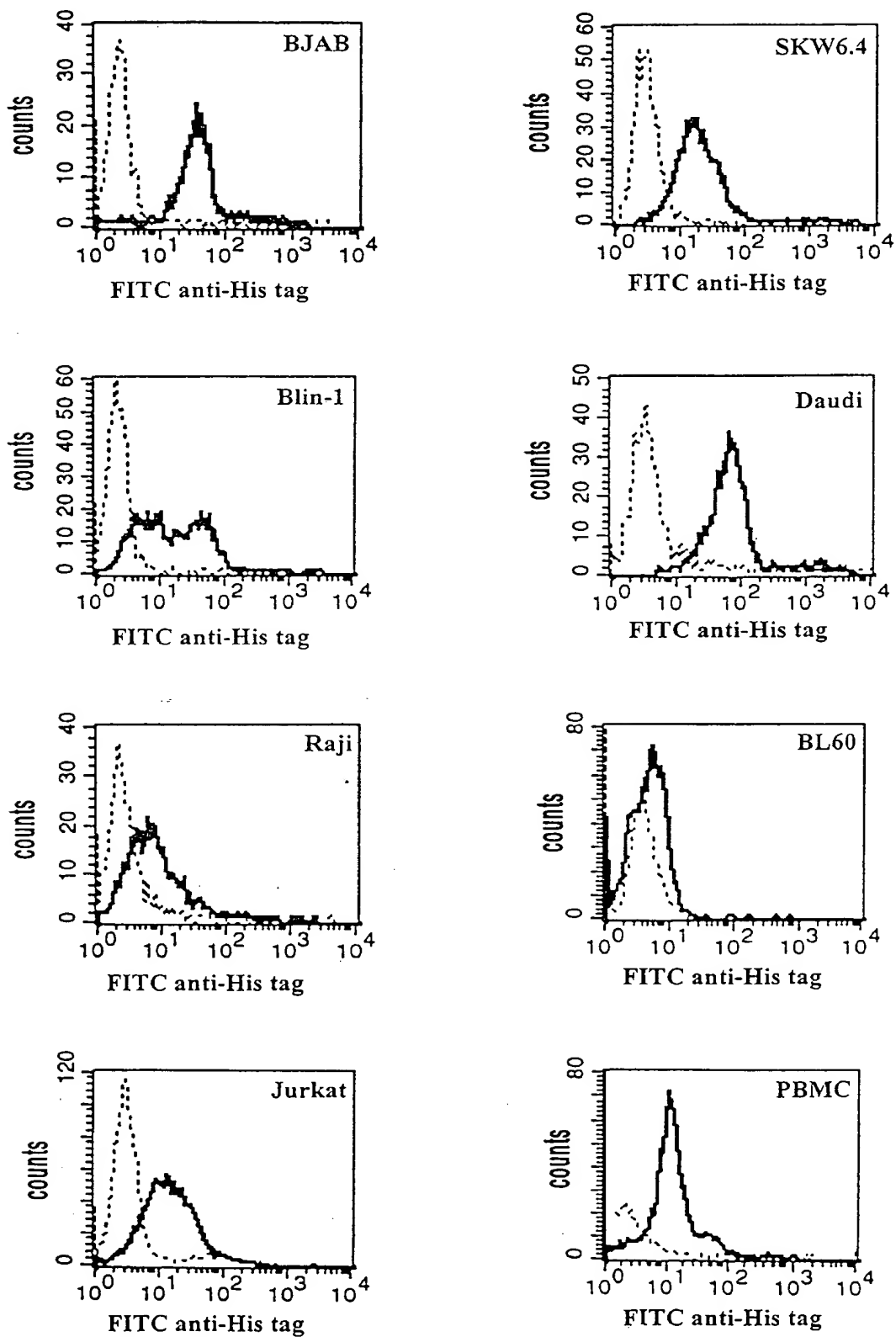
Figure 1:

Coomassie Blue-stained SDS/Polyacrylamide Gel of Purified bscCD19xCD3



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Figure 2:



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Figure 3:

Cytotoxicity of bscCD19xCD3 in a ^{51}Cr release assay
with unstimulated PBMC against different B cell lines

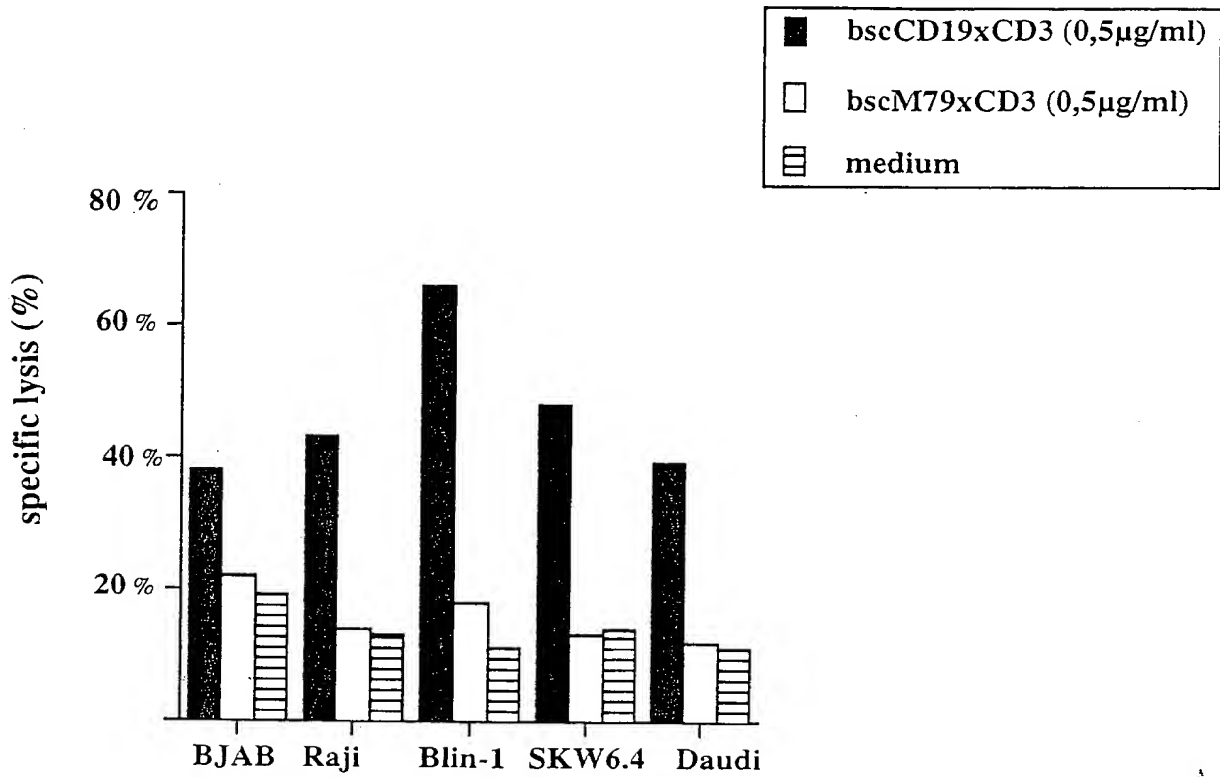


Figure 4:

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**Cytotoxicity assay with PBMC against CD19⁺ Daudi
and CD19⁻ plasmacytoma cells (L363 and NCI)**

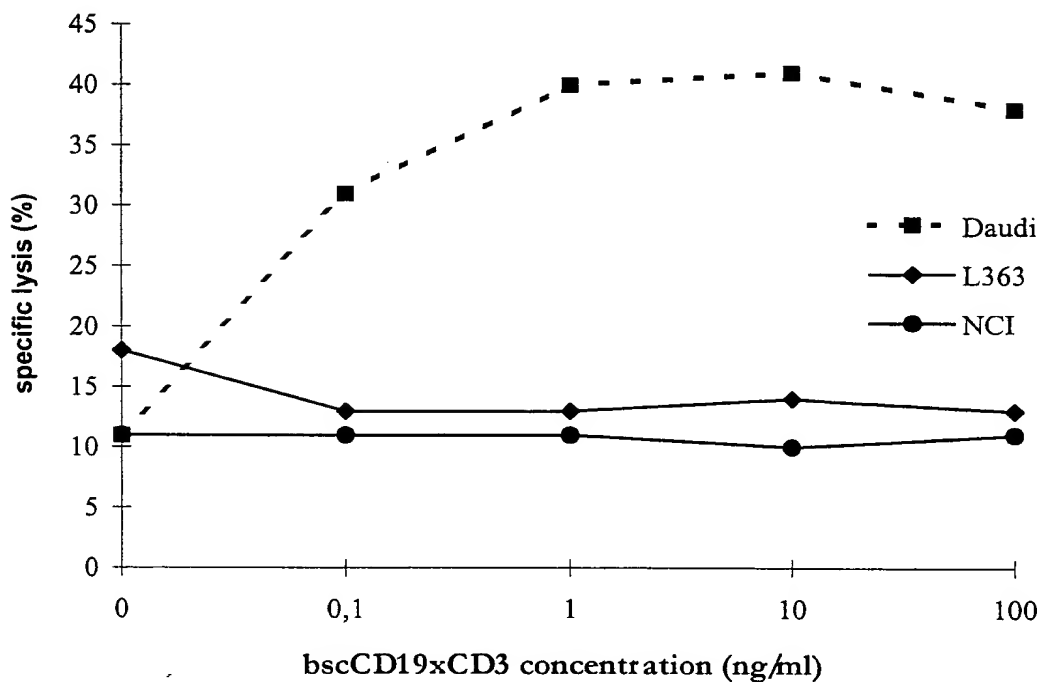
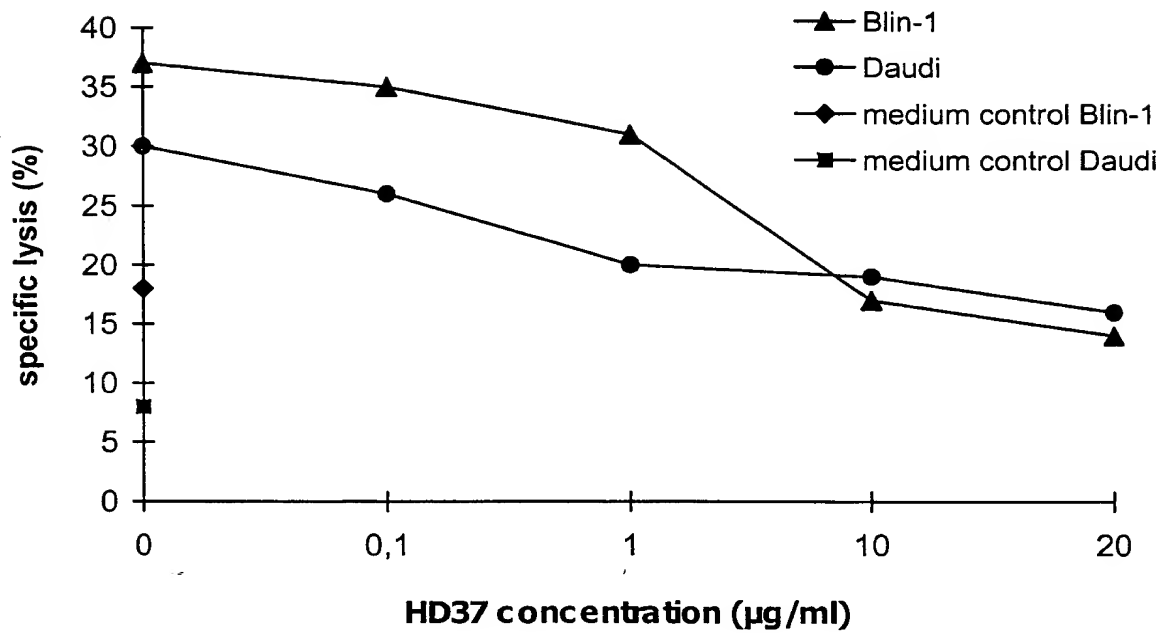


Figure 5:

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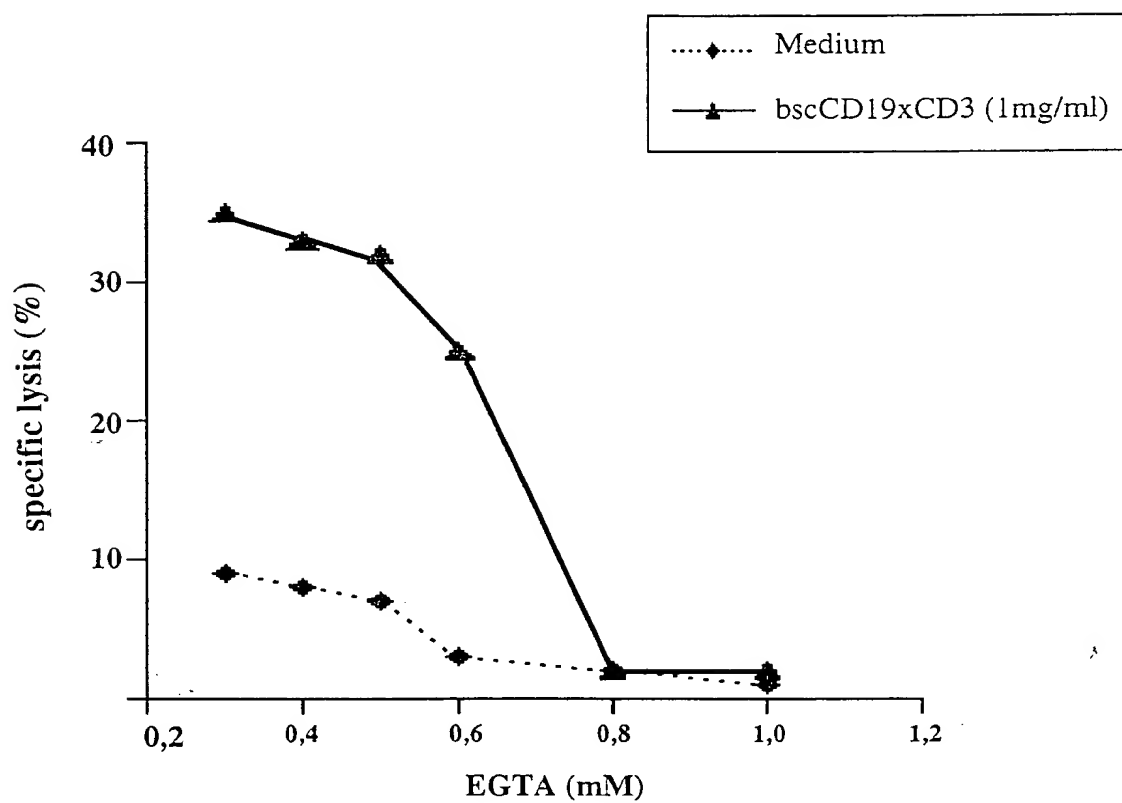
**Inhibition of the cytotoxicity of bscCD19xCD3
by the parental anti-CD19 antibody HD37**



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Figure 6:

Cytotoxicity assay with unstimulated PBMC's against Daudi cells
after addition of increasing amounts of EGTA



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Figure 7:

Cytotoxicity of bscCD19xCD3 in a $^{51}\text{-Cr}$ release assay
with unstimulated PBMCs in different E:T ratios

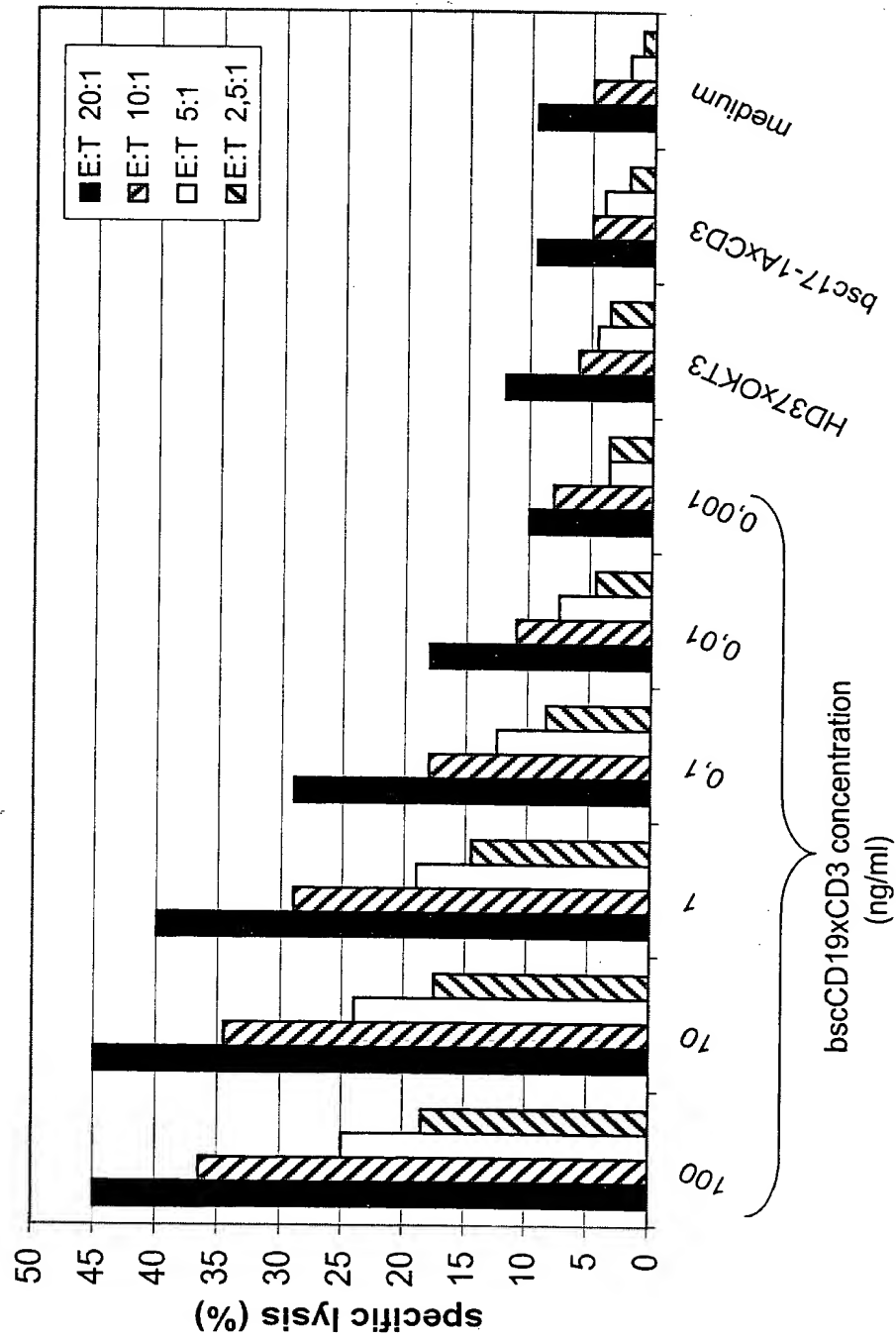


Figure 8:

															-10		-5		-1		
															5'	G	AAT	TCC	ACC		
		9			18			27			36			45			54				
ATG	GGA	TGG	AGC	TGT	ATC	ATC	CTC	TTC	TTG	GTA	GCA	ACA	GCT	ACA	GGT	GTC	CAC				
M	G	W	S	C	I	I	L	F	L	V	A	T	A	T	G	V	H				
		63			72			81			90			99			108				
TCC	GAC	TAC	AAA	GAT	GAT	GAC	GAT	AAG	GAT	ATC	CAG	CTG	ACC	CAG	TCT	CCA	GCT				
S	D	Y	K	D	D	D	D	K	D	I	Q	L	T	Q	S	P	A				
		117			126			135			144			153			162				
TCT	TTG	GCT	GTG	TCT	CTA	GGG	CAG	AGG	GCC	ACC	ATC	TCC	TGC	AAG	GCC	AGC	CAA				
S	L	A	V	S	L	G	Q	R	A	T	I	S	C	K	A	S	Q				
		171			180			189			198			207			216				
AGT	GTT	GAT	TAT	GAT	GGT	GAT	AGT	TAT	TTG	AAC	TGG	TAC	CAA	CAG	ATT	CCA	GGA				
S	V	D	Y	D	G	D	S	Y	L	N	W	Y	Q	Q	I	P	G				
		225			234			243			252			261			270				
CAG	CCA	CCC	AAA	CTC	CTC	ATC	TAT	GAT	GCA	TCC	AAT	CTA	GTT	TCT	GGG	ATC	CCA				
Q	P	P	K	L	L	I	Y	D	A	S	N	L	V	S	G	I	P				
		279			288			297			306			315			324				
CCC	AGG	TTT	AGT	GGC	AGT	GGG	TCT	GGG	ACA	GAC	TTC	ACC	CTC	AAC	ATC	CAT	CCT				
P	R	F	S	G	S	G	S	G	T	D	F	T	L	N	I	H	P				
		333			342			351			360			369			378				
GTG	GAG	AAG	GTG	GAT	GCT	GCA	ACC	TAT	CAC	TGT	CAG	CAA	AGT	ACT	GAG	GAT	CCG				
V	E	K	V	D	A	A	T	Y	H	C	Q	Q	S	T	E	D	P				
		387			396			405			414			423			432				
TGG	ACG	TTC	GGT	GGA	GGG	ACC	AAG	CTC	GAG	ATC	AAA	GGT	GGT	GGT	GGT	TCT	GGC				
W	T	F	G	G	G	T	K	L	E	I	K	G	G	G	G	S	G				
		441			450			459			468			477			486				
GGC	GGC	GGC	TCC	GGT	GGT	GGT	GGT	TCT	CAG	GTG	CAG	CTG	CAG	CAG	TCT	GGG	GCT				
G	G	G	S	G	G	G	G	S	Q	V	Q	L	Q	Q	S	G	A				
		495			504			513			522			531			540				
GAG	CTG	GTG	AGG	CCT	GGG	TCC	TCA	GTG	AAG	ATT	TCC	TGC	AAG	GCT	TCT	GGC	TAT				
E	L	V	R	P	G	S	S	V	K	I	S	C	K	A	S	G	Y				
		549			558			567			576			585			594				
GCA	TTC	AGT	AGC	TAC	TGG	ATG	AAC	TGG	GTG	AAG	CAG	AGG	CCT	GGA	CAG	GGT	CTT				
A	F	S	S	Y	W	M	N	W	V	K	Q	R	P	G	Q	G	L				
		603			612			621			630			639			648				
GAG	TGG	ATT	GGA	CAG	ATT	TGG	CCT	GGA	GAT	GGT	GAT	ACT	AAC	TAC	AAT	GGA	AAG				
E	W	I	G	Q	I	W	P	G	D	G	D	T	N	Y	N	G	K				
		657			666			675			684			693			702				
TTC	AAG	GGT	AAA	GCC	ACT	CTG	ACT	GCA	GAC	GAA	TCC	TCC	AGC	ACA	GCC	TAC	ATG				
F	K	G	K	A	T	L	T	A	D	E	S	S	S	T	A	Y	M				
		711			720			729			738			747			756				
CAA	CTC	AGC	AGC	CTA	GCA	TCT	GAG	GAC	TCT	GCG	GTC	TAT	TTC	TGT	GCA	AGA	CGG				
Q	L	S	S	L	A	S	E	D	S	A	V	Y	F	C	A	R	R				

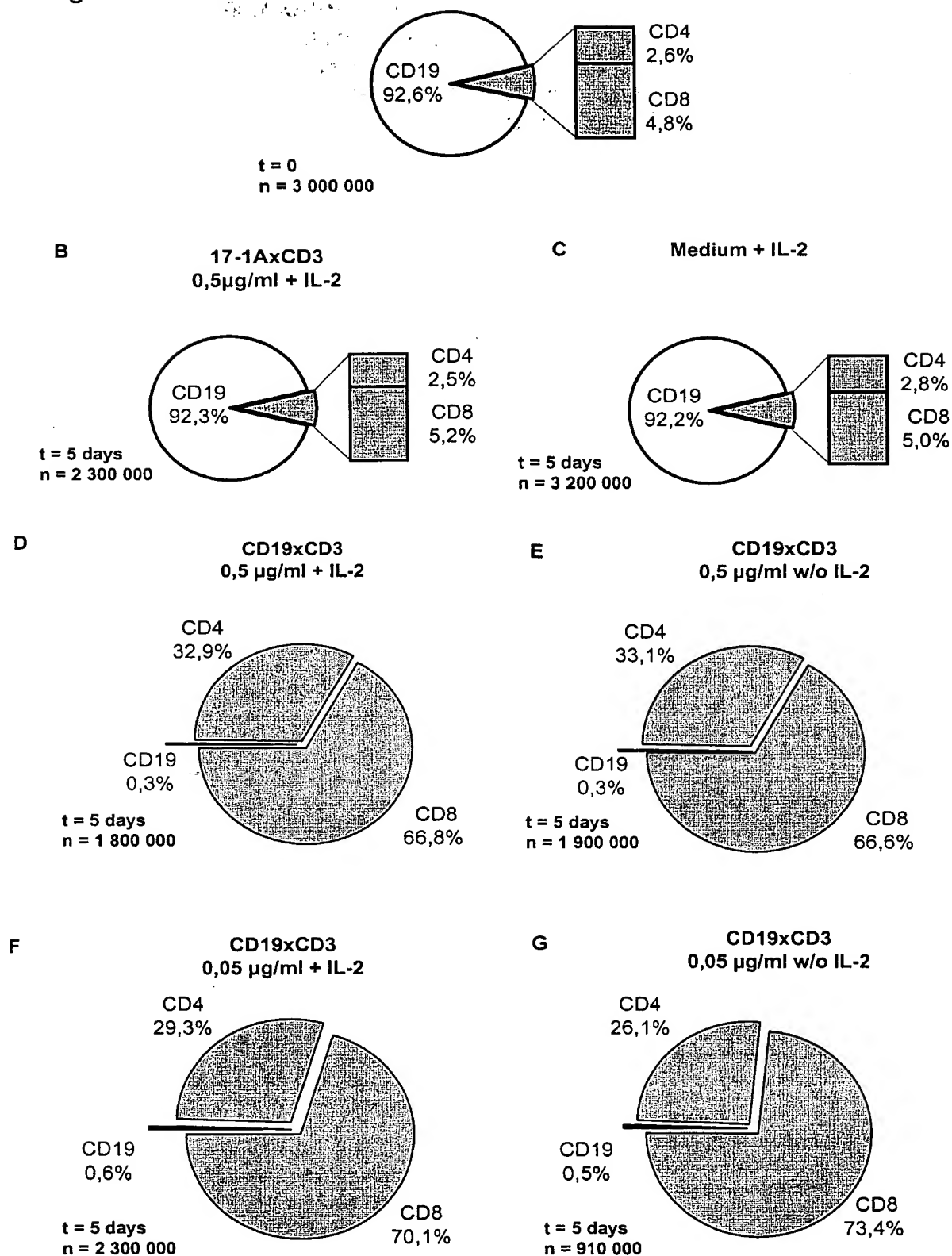
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Figure 8 (continued)

765			774			783			792			801			810		
GAG	ACT	ACG	ACG	GTA	GGC	CGT	TAT	TAC	TAT	GCT	ATG	GAC	TAC	TGG	GGC	CAA	GGG
E	T	T	T	V	G	R	Y	Y	Y	A	M	D	Y	W	G	Q	G
819			828			837			846			855			864		
ACC	ACG	GTC	ACC	GTC	TCC	TCC	GGA	GGT	GGT	GGA	TCC	GAT	ATC	AAA	CTG	CAG	CAG
T	T	V	T	V	S	S	G	G	G	G	S	D	I	K	L	Q	Q
873			882			891			900			909			918		
TCA	GGG	GCT	GAA	CTG	GCA	AGA	CCT	GGG	GCC	TCA	GTG	AAG	ATG	TCC	TGC	AAG	ACT
S	G	A	E	L	A	R	P	G	A	S	V	K	M	S	C	K	T
927			936			945			954			963			972		
TCT	GGC	TAC	ACC	TTT	ACT	AGG	TAC	ACG	ATG	CAC	TGG	GTA	AAA	CAG	AGG	CCT	GGA
S	G	Y	T	F	T	R	Y	T	M	H	W	V	K	Q	R	P	G
981			990			999			1008			1017			1026		
CAG	GGT	CTG	GAA	TGG	ATT	GGA	TAC	ATT	AAT	CCT	AGC	CGT	GGT	TAT	ACT	AAT	TAC
Q	G	L	E	W	I	G	Y	I	N	P	S	R	G	Y	T	N	Y
1035			1044			1053			1062			1071			1080		
AAT	CAG	AAG	TTC	AAG	GAC	AAG	GCC	ACA	TTG	ACT	ACA	GAC	AAA	TCC	TCC	AGC	ACA
N	Q	K	F	K	D	K	A	T	L	T	T	D	K	S	S	S	T
1089			1098			1107			1116			1125			1134		
GCC	TAC	ATG	CAA	CTG	AGC	AGC	CTG	ACA	TCT	GAG	GAC	TCT	GCA	GTC	TAT	TAC	TGT
A	Y	M	Q	L	S	S	L	T	S	E	D	S	A	V	Y	Y	C
1143			1152			1161			1170			1179			1188		
GCA	AGA	TAT	TAT	GAT	GAT	CAT	TAC	TGC	CTT	GAC	TAC	TGG	GGC	CAA	GGC	ACC	ACT
A	R	Y	Y	D	D	H	Y	C	L	D	Y	W	G	Q	G	T	T
1197			1206			1215			1224			1233			1242		
CTC	ACA	GTC	TCC	TCA	GTC	GAA	GGT	GGA	AGT	GGA	GGT	TCT	GGT	GGA	AGT	GGA	GGT
L	T	V	S	S	V	E	G	G	S	G	G	S	G	G	S	G	G
1251			1260			1269			1278			1287			1296		
TCA	GGT	GGA	GTC	GAC	GAC	ATT	CAG	CTG	ACC	CAG	TCT	CCA	GCA	ATC	ATG	TCT	GCA
S	G	G	V	D	D	I	Q	L	T	Q	S	P	A	I	M	S	A
1305			1314			1323			1332			1341			1350		
TCT	CCA	GGG	GAG	AAG	GTC	ACC	ATG	ACC	TGC	AGA	GCC	AGT	TCA	AGT	GTA	AGT	TAC
S	P	G	E	K	V	T	M	T	C	R	A	S	S	S	V	S	Y
1359			1368			1377			1386			1395			1404		
ATG	AAC	TGG	TAC	CAG	CAG	AAG	TCA	GGC	ACC	TCC	CCC	AAA	AGA	TGG	ATT	TAT	GAC
M	N	W	Y	Q	Q	K	S	G	T	S	P	K	R	W	I	Y	D
1413			1422			1431			1440			1449			1458		
ACA	TCC	AAA	GTG	GCT	TCT	GGA	GTC	CCT	TAT	CGC	TTC	AGT	GGC	AGT	GGG	TCT	GGG
T	S	K	V	A	S	G	V	P	Y	R	F	S	G	S	G	S	G
1467			1476			1485			1494			1503			1512		
ACC	TCA	TAC	TCT	CTC	ACA	ATC	AGC	AGC	ATG	GAG	GCT	GAA	GAT	GCT	GCC	ACT	TAT
T	S	Y	S	L	T	I	S	S	M	E	A	E	D</				

Figure 9

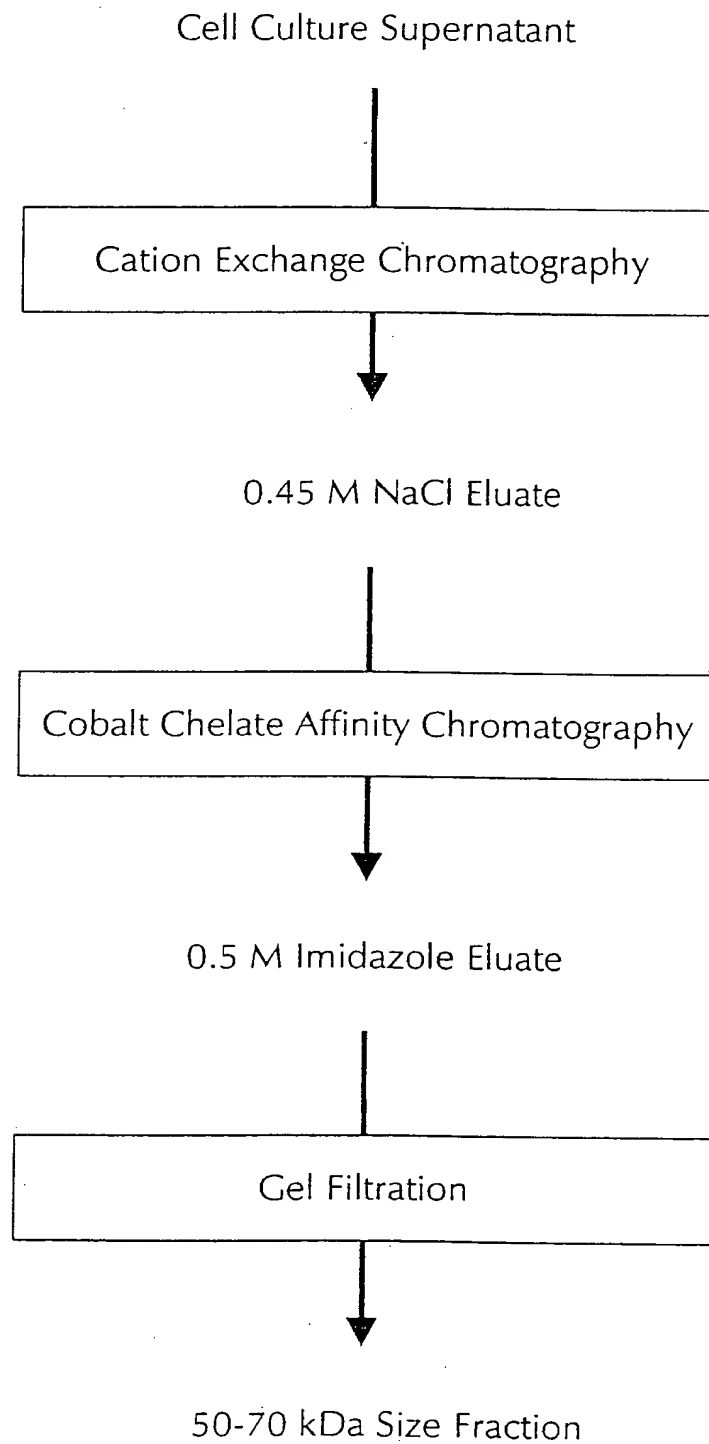
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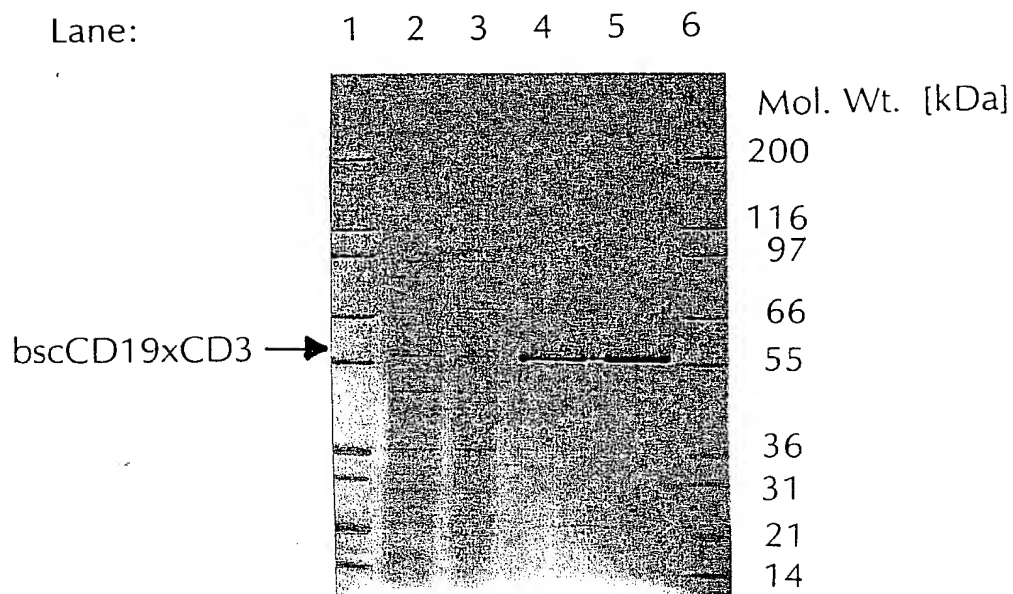
Figure 10

Purification of bscCD19xCD3



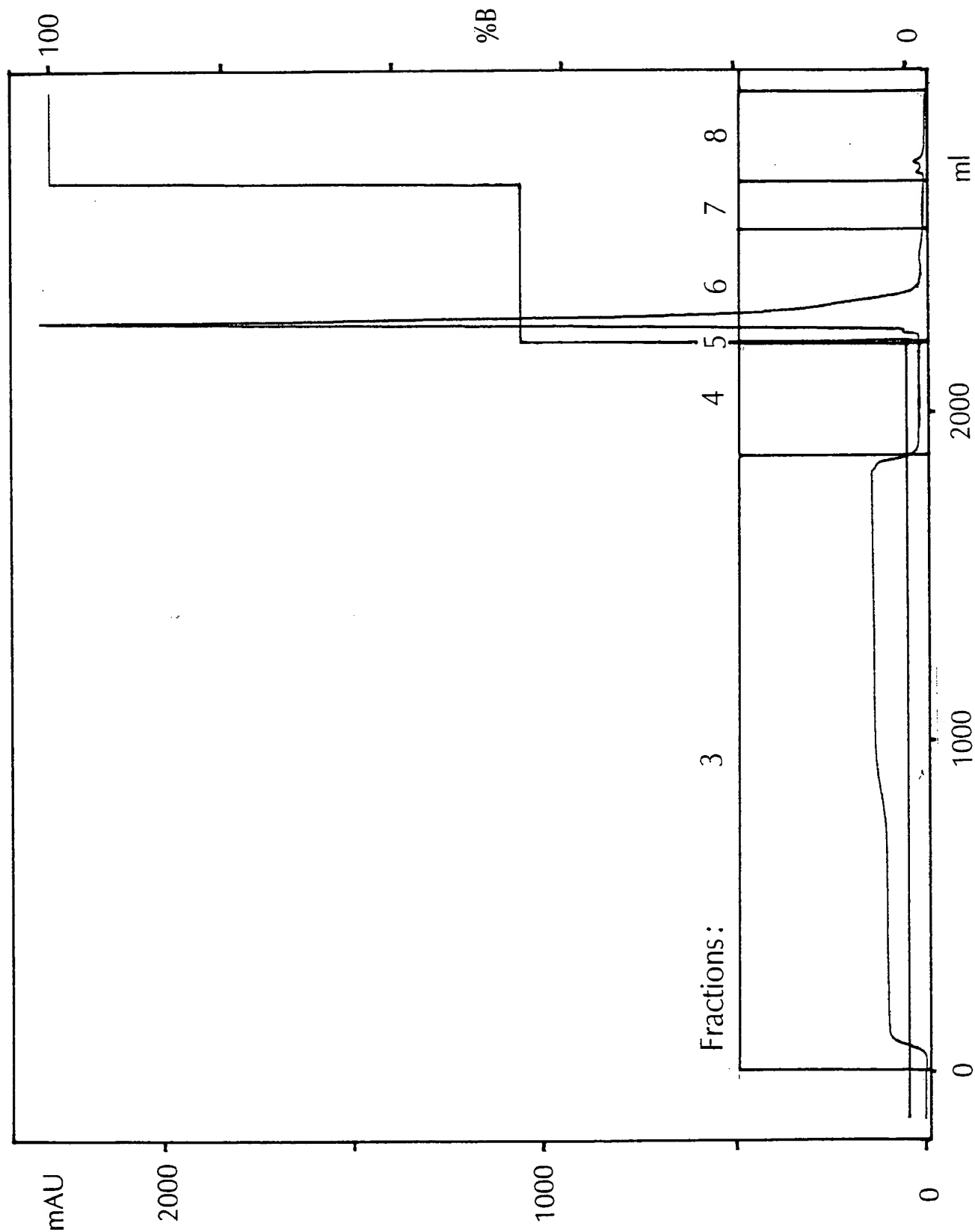
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Figure 11 SDS-PAGE Analysis of bscCD19xCD3



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Figure 12



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Figure 13

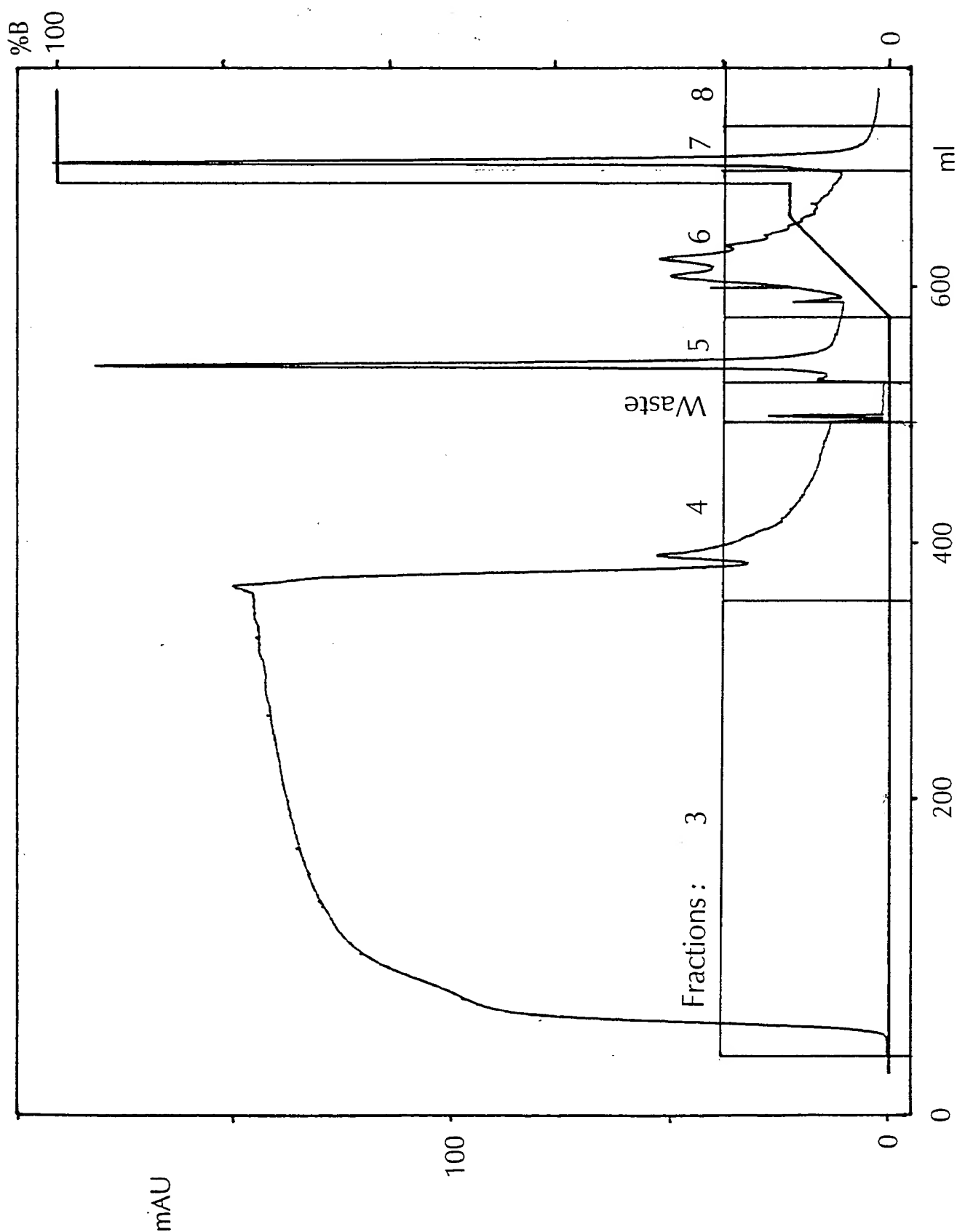


Figure 14

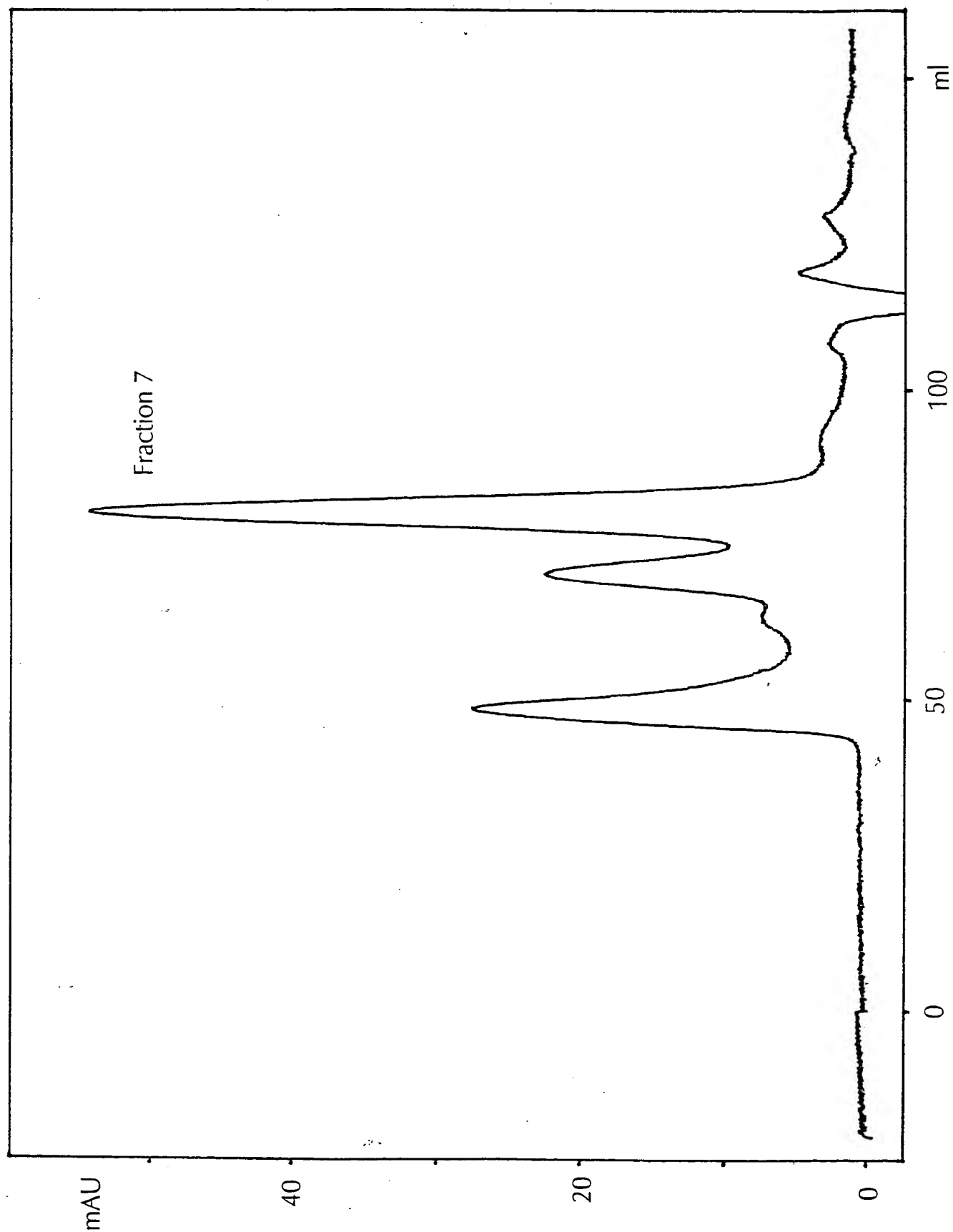
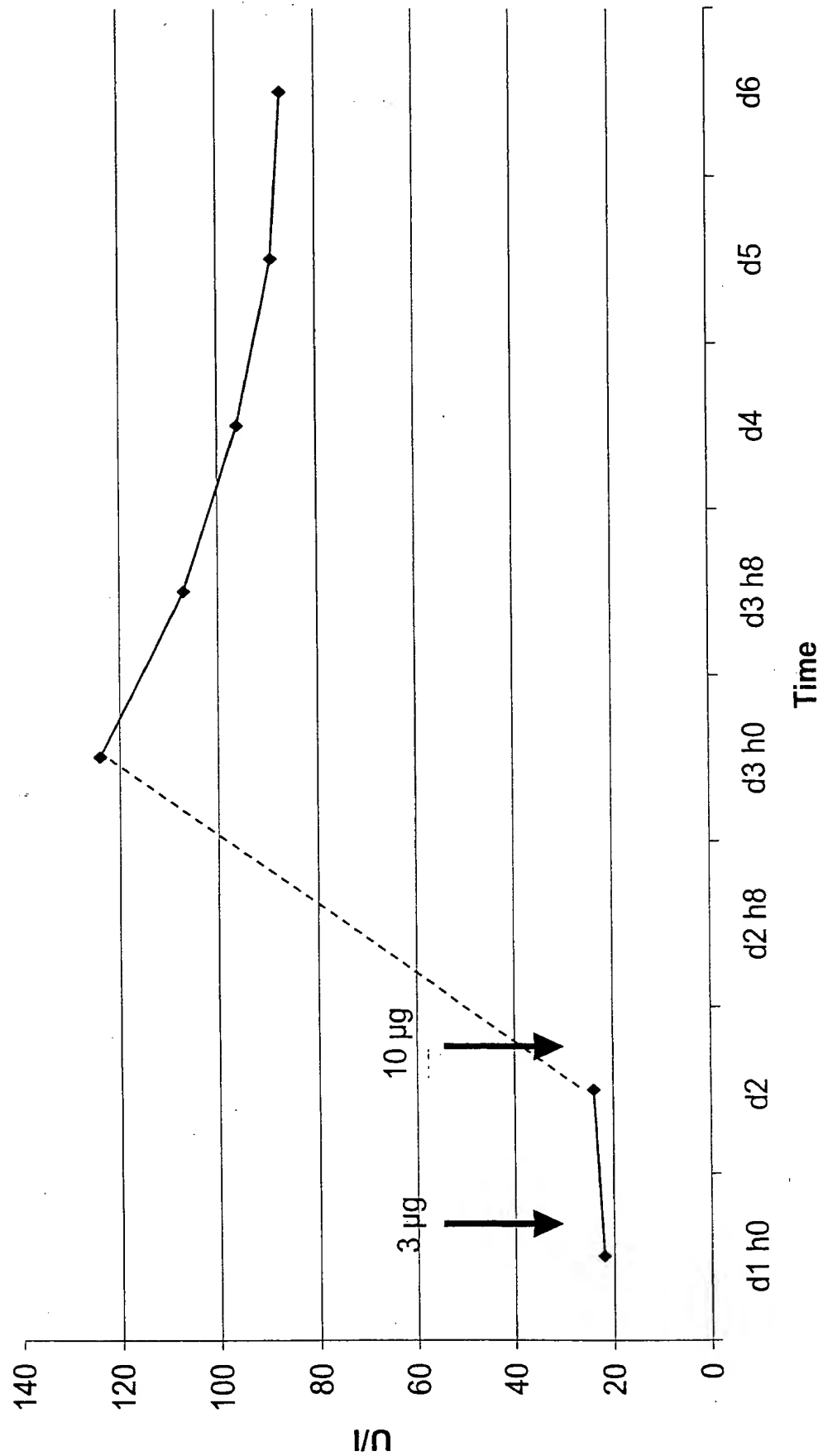


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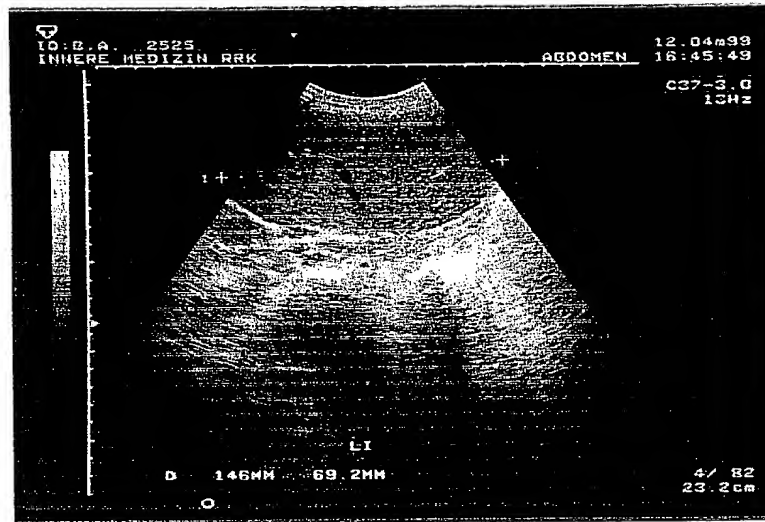
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GGT

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Figure 16

A



B

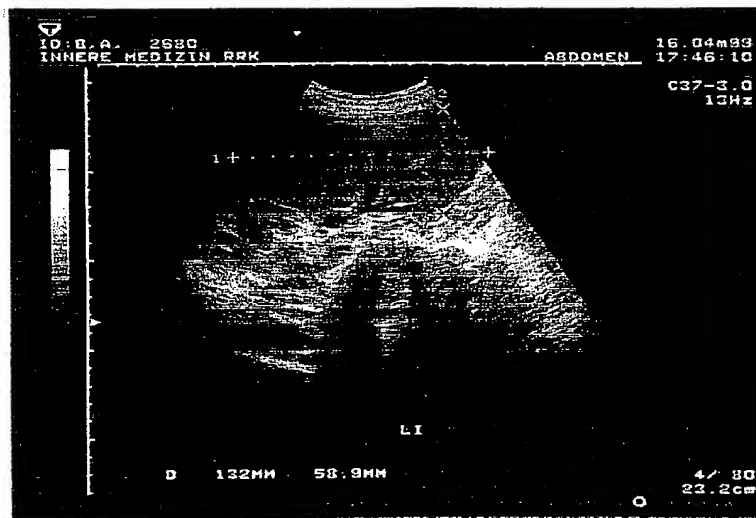


Figure 17

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Leukocytes

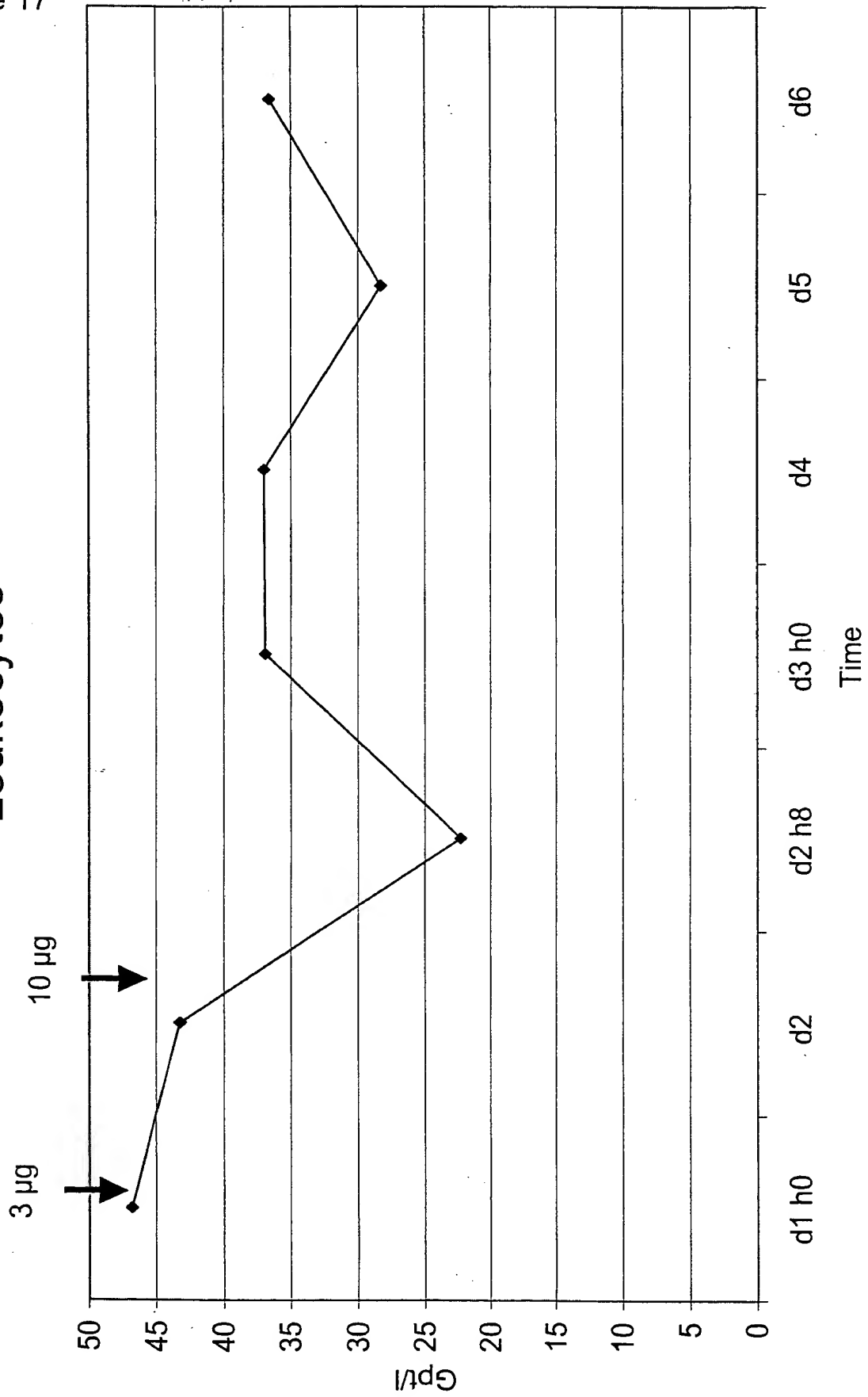


Figure 18:

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CRP

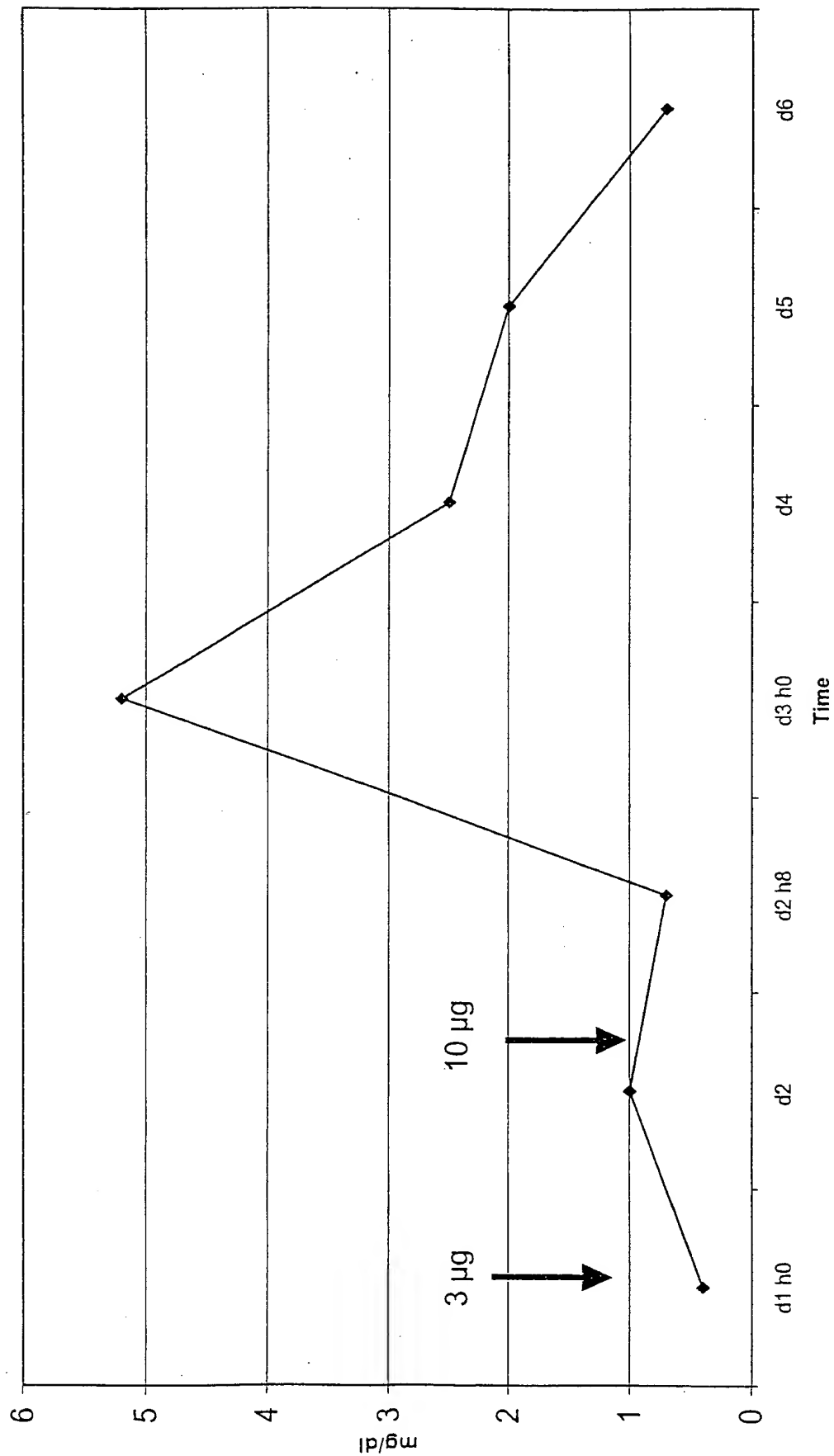


Figure 19

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TNF

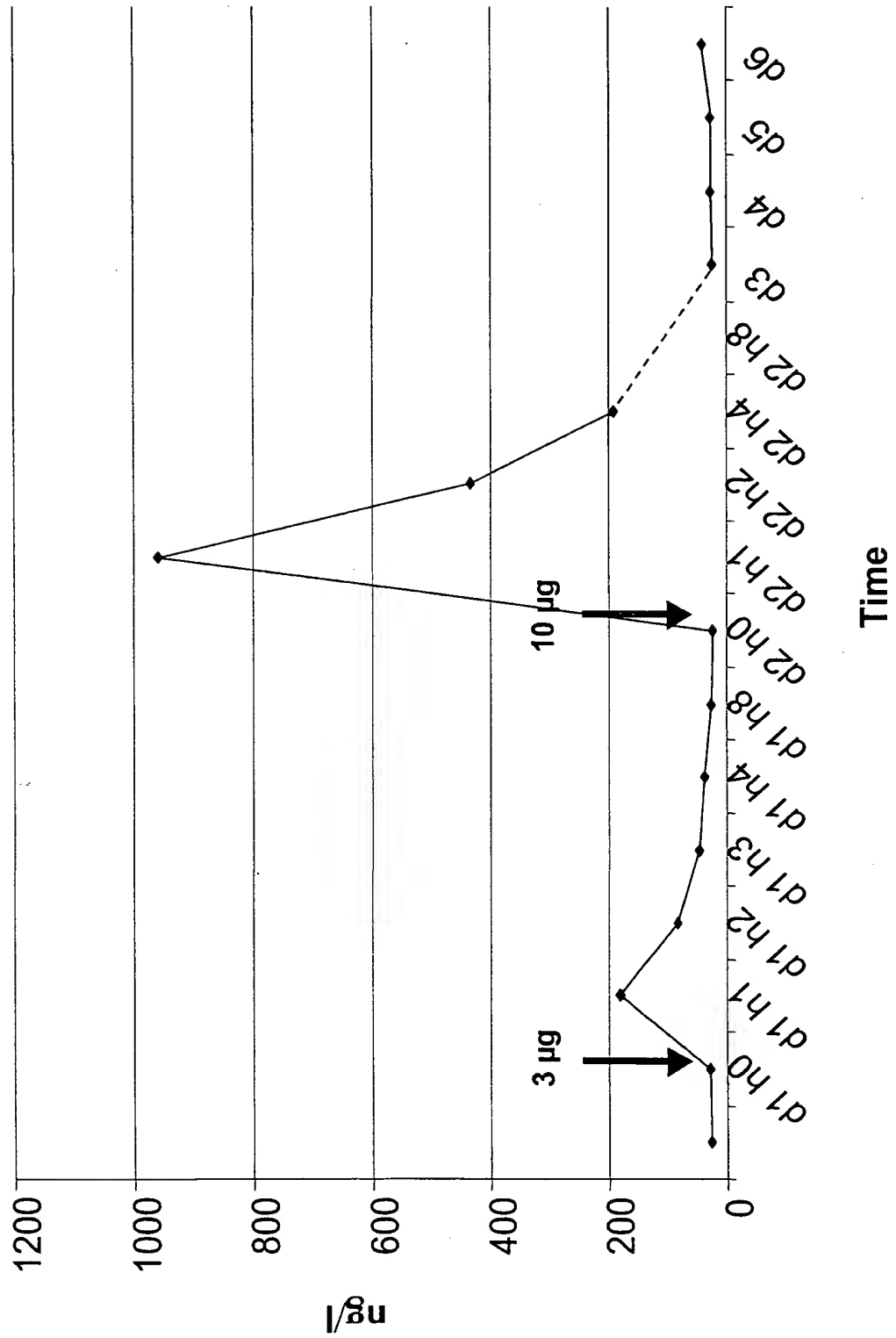
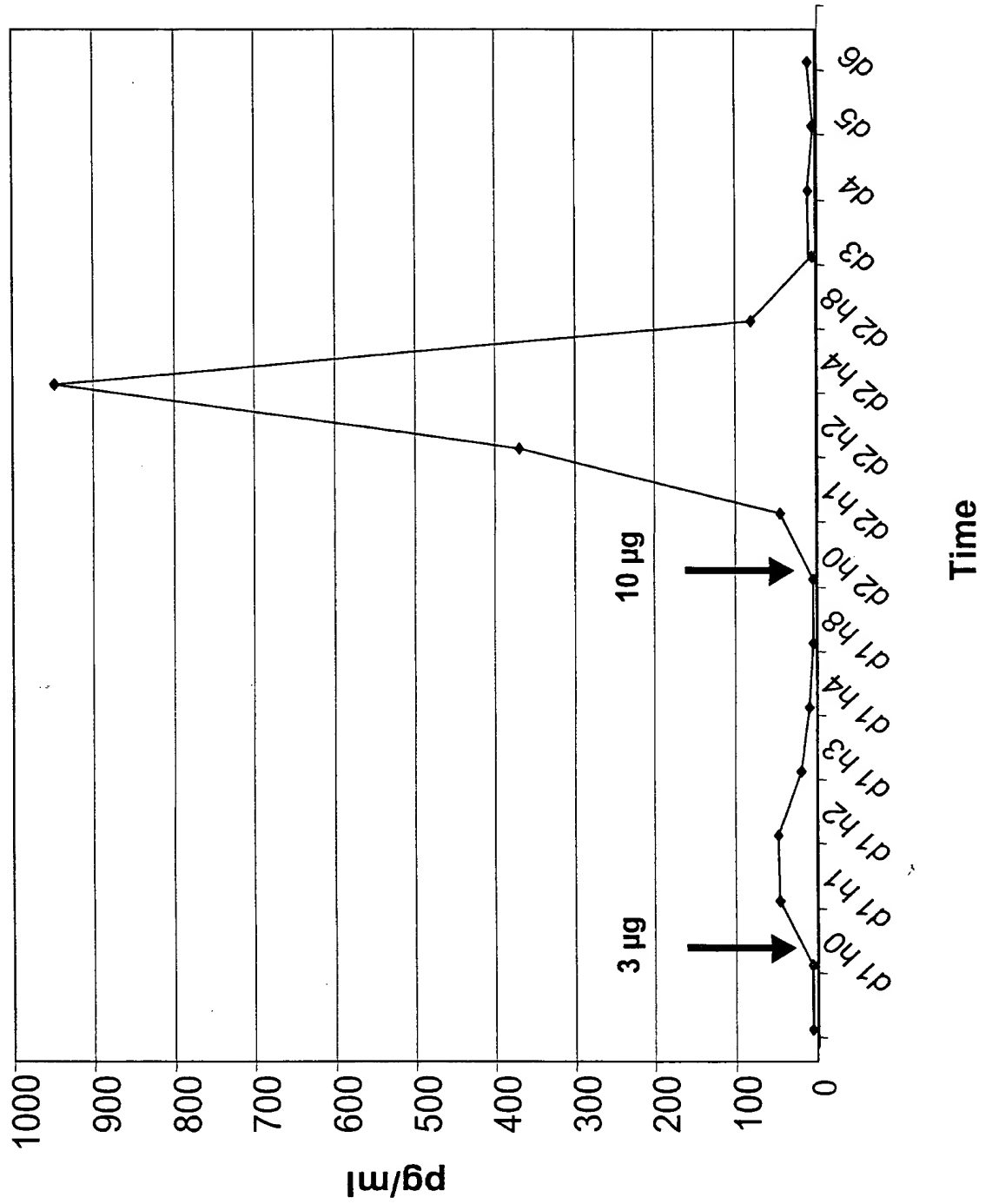


Figure 20.

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Figure 21

IL-8

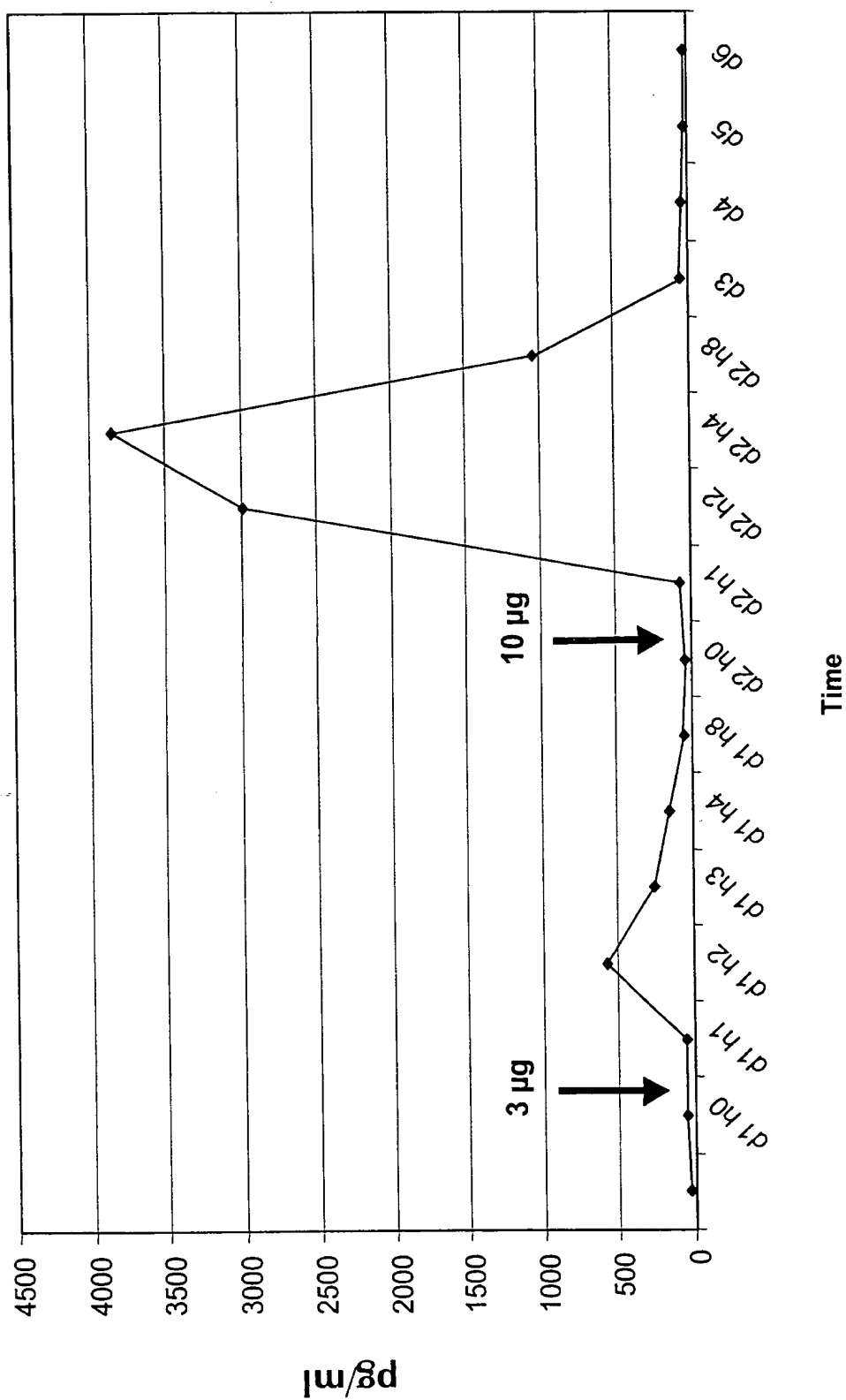


Figure 22

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IL-2 R

